Yucheng Lan

List of Publications by Year
in descending order

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Version: 2024-02-01

42	12,611	172207	276539
papers	citations	29 h-index	41 g-index

44	44	44	10130
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Boron carbide amorphous solid with tunable band gap. Journal of Alloys and Compounds, 2021, 861, 157951.	2.8	7
2	Enhanced Thermoelectric Performance of Zintl Phase Ca₉Zn_{4+x}Sb₉ by Beneficial Disorder on the Selective Cationic Site. ACS Applied Materials & Interfaces, 2019, 11, 37741-37747.	4.0	17
3	Recent Progress on Irradiation-Induced Defect Engineering of Two-Dimensional 2H-MoS2 Few Layers. Applied Sciences (Switzerland), 2019, 9, 678.	1.3	46
4	EELS Investigations of Carbon-rich Boron Carbide Nanomaterials. Microscopy and Microanalysis, 2018, 24, 1756-1757.	0.2	2
5	Higher thermoelectric performance of Zintl phases (Eu _{0.5} Yb _{0.5}) _{1â^'x} Ca _x Mg ₂ Bi ₂ by band engineering and strain fluctuation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4125-32.	3.3	145
6	Thermoelectric Nanocomposites for Thermal Energy Conversion. Nanoscience and Technology, 2016, , 371-443.	1.5	5
7	Highly active and durable self-standing WS₂/graphene hybrid catalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 9472-9476.	5.2	75
8	Achieving high power factor and output power density in p-type half-Heuslers Nb _{1-x} Ti _x FeSb. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13576-13581.	3.3	213
9	Transport and mechanical properties of the double-filled p-type skutterudites La0.68Ce0.22Fe4â^'xCoxSb12. Acta Materialia, 2016, 117, 13-22.	3.8	26
10	One-step synthesis of self-supported porous NiSe 2 /Ni hybrid foam: An efficient 3D electrode for hydrogen evolution reaction. Nano Energy, 2016, 20, 29-36.	8.2	279
11	Thermoelectric and mechanical properties on misch metal filled p-type skutterudites Mm0.9Fe4â^'xCoxSb12. Journal of Applied Physics, 2015, 117, 055101.	1.1	31
12	Effect of Cu concentration on thermoelectric properties of nanostructured p-type MgAg0.97â^'Cu Sb0.99. Acta Materialia, 2015, 87, 266-272.	3.8	53
13	Gallium nitride porous microtubules self-assembled from wurtzite nanorods. Journal of Crystal Growth, 2015, 415, 139-145.	0.7	8
14	Study on thermoelectric performance by Na doping in nanostructured Mg1-Na Ag0.97Sb0.99. Nano Energy, 2015, 11, 640-646.	8.2	74
15	Effect of triple fillers in thermoelectric performance of p-type skutterudites. Journal of Alloys and Compounds, 2015, 623, 104-108.	2.8	26
16	Investigating the thermoelectric properties of p-type half-Heusler Hf_x(ZrTi)_{1â^'x}CoSb_{0.8}Sn_{0.2} by reducing Hf concentration for power generation. RSC Advances, 2014, 4, 64711-64716.	1.7	54
17	High thermoelectric performance of MgAgSb-based materials. Nano Energy, 2014, 7, 97-103.	8.2	264
18	Bi2S3 nanonetwork as precursor for improved thermoelectric performance. Nano Energy, 2014, 4, 113-122.	8.2	64

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19	NbFeSb-based p-type half-Heuslers for power generation applications. Energy and Environmental Science, 2014, 7, 4070-4076.	15.6	174
20	Nanostructured YbAgCu₄ for Potentially Cryogenic Thermoelectric Cooling. Nano Letters, 2014, 14, 5016-5020.	4.5	19
21	Thermoelectric performance of Ni compensated cerium and neodymium double filled p-type skutterudites. Physical Chemistry Chemical Physics, 2014, 16, 18170-18175.	1.3	20
22	Substitution of Antimony by Tin and Tellurium in n-Type Skutterudites CoSb2.8Sn x Te0.2â^'x. Jom, 2014, 66, 2282-2287.	0.9	7
23	Thermoelectric property enhancement in Yb-doped n-type skutterudites YbxCo4Sb12. Acta Materialia, 2014, 75, 316-321.	3.8	52
24	Mini review on photocatalysis of titanium dioxide nanoparticles and their solar applications. Nano Energy, 2013, 2, 1031-1045.	8.2	348
25	The effect of secondary phase on thermoelectric properties of Zn4Sb3 compound. Nano Energy, 2013, 2, 1172-1178.	8.2	35
26	Increased thermoelectric performance by Cl doping in nanostructured AgPb18SbSe20â^'xClx. Nano Energy, 2013, 2, 1121-1127.	8.2	30
27	High thermoelectric performance by resonant dopant indium in nanostructured SnTe. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13261-13266.	3.3	632
28	Properties and Applications of Aligned Carbon Nanotube Arrays. Nanoscience and Technology, 2012, , 183-253.	1.5	0
29	Enhanced Thermoelectric Figure of Merit of p-Type Half-Heuslers. Nano Letters, 2011, 11, 556-560.	4.5	362
30	Physics and applications of aligned carbon nanotubes. Advances in Physics, 2011, 60, 553-678.	35.9	128
31	Power Factor Enhancement by Modulation Doping in Bulk Nanocomposites. Nano Letters, 2011, 11, 2225-2230.	4.5	461
32	Thermoelectric Property Studies on Cuâ€Doped nâ€type Cu_xBi₂Te_{2.7}Se_{0.3} Nanocomposites. Advanced Energy Materials, 2011, 1, 577-587.	10.2	535
33	Experimental Studies on Anisotropic Thermoelectric Properties and Structures of n-Type Bi₂Te_{2.7}Se_{0.3}. Nano Letters, 2010, 10, 3373-3378.	4.5	608
34	Enhancement of Thermoelectric Figureâ€ofâ€Merit by a Bulk Nanostructuring Approach. Advanced Functional Materials, 2010, 20, 357-376.	7.8	795
35	A molecular-imprint nanosensor for ultrasensitive detection of proteins. Nature Nanotechnology, 2010, 5, 597-601.	15.6	322
36	Structure Study of Bulk Nanograined Thermoelectric Bismuth Antimony Telluride. Nano Letters, 2009, 9, 1419-1422.	4.5	236

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37	Enhancement of Thermoelectric Figure-of-Merit by a Nanostructure Approach. Materials Research Society Symposia Proceedings, 2009, 1166, 3.	0.1	5
38	High-Thermoelectric Performance of Nanostructured Bismuth Antimony Telluride Bulk Alloys. Science, 2008, 320, 634-638.	6.0	4,843
39	Enhanced Thermoelectric Figure-of-Merit in Nanostructured p-type Silicon Germanium Bulk Alloys. Nano Letters, 2008, 8, 4670-4674.	4.5	1,014
40	Enhanced Thermoelectric Figure-of-Merit in p-Type Nanostructured Bismuth Antimony Tellurium Alloys Made from Elemental Chunks. Nano Letters, 2008, 8, 2580-2584.	4.5	515
41	The great improvement effect of pores on ZT in Co1â^'xNixSb3 system. Applied Physics Letters, 2008, 93, .	1.5	46
42	Nanostructured Thermoelectric Skutterudite Co1â^'xNixSb3 Alloys. Journal of Nanoscience and Nanotechnology, 2008, 8, 4003-4006.	0.9	31